(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 16 December 2004 (16.12.2004)

(10) International Publication Number WO 2004/107883 A1

(51) International Patent Classification7: 2/60, 2/39, 1/015

A23L 2/66,

(21) International Application Number:

PCT/US2004/017814

(22) International Filing Date:

4 June 2004 (04.06.2004)

(25) Filing Language:

English

(26) Publication Language:

US

(30) Priority Data: 60/476,252

5 June 2003 (05.06.2003)

English

(71) Applicant (for all designated States except US): CARGILL, INCORPORATED [US/US]; Law 24,

(US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): ZOERB, Hans [US/US]; 1072 River Drive, River Falls, Wisconsin 54022

15407 McGinty Road West, Wayzata, Minnesota 55391

(US).

(74) Agents: LEVINE, Edward et al.; CARGILL, INCORPO-RATED, 15407 McGinty Road West, Wayzata, Minnesota 55391 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: BEVERAGE ADDITIVE MIXTURE OF TREHALOSE AND PROTEIN

(57) Abstract: The invention provides an additive for a beverage. The additive comprises a mixture containing one or more normally bitter/cardboard-tasting proteins and trehalose. Although the additive contains at least one normally bitter/cardboard-tasting protein, the additive unexpectedly has a substantially neutral effect on the flavor of the beverage. The invention also provides for the simplicity of processing and storing the mixture in dehydrated form. The mixture is dehydrated, and then rehydrated before or during its addition to a beverage. The dehydration and subsequent rehydration permits processing, preserving, handling, and storing benefitswith substantially no damage to the protein or to the additive. The invention provides the additive and beverages containing the additive. In addition, the invention provides methods for preparing the additive and methods for preparing a flavored beverage.

